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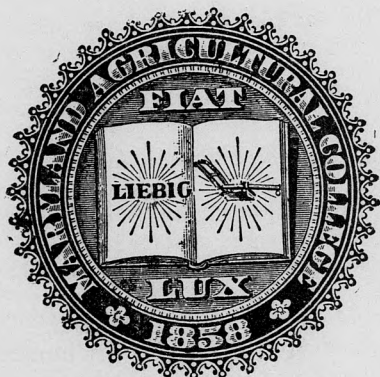
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R. W. SILVESTER, President

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ADDRESS

Chemical Department, Maryland Agricultural College

COLLEGE PARK, MD.

ANALYSES OF Fertilizers Sold in Maryland

BY THE CHEMICAL DEPARTMENT OF

The Maryland Agricultural College

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The tables on the following pages are made up of the results of the analysis of fertilizers made at the College from September to December, 1909, inclusive.

The majority of the samples analyzed are obtained by our sampling agents, the samples being taken while the goods are in transit, on vessels, wharves, cars, or stations, from farmers' wagons, barns, etc. It is impossible for us to analyze all the samples we collect; duplicates are generally omitted.

When a sample has been sent in by a farmer his name appears after the place of sampling. No sample is analyzed unless fully described on blanks furnished by this department. The description is not sent in, however, till after the analysis is reported.

No samples are accepted from manufacturers or their agents under any circumstances.

The figures in the columns headed "Ammonia," "Potash" and "Phosphoric Acid," are percentages, or pounds per hundred. To get pounds per ton multiply the per cent by 20. The columns headed "Found" contain the results found by analysis; those headed "Guaranteed" contain the essential part of the guarantee as stamped on the bags.

The columns headed "No." contain the respective numbers by which the samples are known in the laboratory. In writing to the Chemical Department in regard to any analysis the number should always be given. The samples are numbered consecutively on the books of the office, but are arranged alphabetically for publication, which accounts for the mixing of the numbers.

To get "Total" phosphoric acid add the "Insoluble" to the "Available" phosphoric acid.

The "Comparative Value Found" is calculated from the results of analysis as found in our laboratory; the "Comparative Value Guaranteed" is calculated from the manufacturers' guaranteed analysis as printed on the bags; in each case using the schedule as given below.

Schedule for Calculating Comparative Values.

In Mixed Fertilizer:	
For Nitrogen, calculated as Ammonia	20 cts. per pound.
For Potash (K_2O), in forms free from muriate	6 cts. per pound.
For Potash (K_2O), as murite or kainit	5 cts. per pound.
For Available Phosphoric Acid	6 cts. per pound.
For Insoluble Phosphoric Acid	2 cts. per pound.
For Insoluble Phosphoric Acid when from rock	1 ct. per pound.
In Dissolved Rock:	
Available Phosphoric Acid	4 1/2 cts. per pound.
Insoluble Phosphoric Acid	1 ct. per pound.
In Tankage:	
For Nitrogen, calculated as Ammonia	15 cts. per pound.
For Phosphoric Acid	3 cts. per pound.
In Ground Bone:	
For Nitrogen, calculated as Ammonia	20 cts. per pound.
For Phosphoric Acid	3 cts. per pound.

The "Comparative Values" given in the table are not claimed to be the proper prices to be paid for the various fertilizers at the place of sale or use. They will be found to be not far from the prices for which fertilizers may be obtained at Baltimore, for cash. In making comparisons at other points freight from Baltimore should be added.

It should be noted that plant food costs more in low grade or "cheap" fertilizers than it does in high grade goods. Thus a 1-5-1 fertilizer (1 per cent of ammonia, 5 per cent of available phosphoric acid and 1 per cent of potash) will cost more than half as much as a 2-10-2 fertilizer, though it only contains half as much plant food. The demand for "cheap" fertilizer causes low grade material to be at a premium, even when less efficient and less available than the same amount of actual plant food in the higher grade goods.

Farmers are advised to buy 16 per cent dissolved rock or acid phosphate, when possible. Do not expect to get the 16 per cent goods at the same price paid for the 14 per cent, however. The higher grade will cost about \$1 per ton more. The cheapest filler is the soil in the field and the cheapest mixing machine is the harrow.

Low grade mixed fertilizers should be avoided, such as a fertilizer guaranteed to contain 1/4 per cent Ammonia, 6 per cent Available Phosphoric acid and 1 per cent of Potash. Such a fertilizer could be made as follows: 50 lbs. Ground Fish, 750 lbs. Dissolved Rock and 40 lbs. Muriate of Potash to the ton; this would necessitate the use of 1160 lbs. of filler in each ton.

In practice, however, such a fertilizer would be made of materials of lower grade, as garbage tankage, kainit, etc., and would not require so much filler.

Avoid the "cheap" low grade fertilizers if you would avoid filler.

No.	Name and Address of Manufacturer and Name of Fertilizer.	Place of Sampling (and Sampler, when not the College.)	NITROGEN Calculated as AMMONIA.		POTASH, K ₂ O.		PHOSPHORIC ACID.			Comparative Value per Ton Found.	Comparative Value per Ton Guaranteed.	
			Found.	Guaranteed.	Found.	Guaranteed.	Insoluble.	Available.				
20395 F2675	Amer. Agrl. Chem. Co., New York. Big Crop Phosphate Corbitt's Mixture.....	Baltimore..... Locust Grove (C. S. Hill) .....	..... ..... .....	..... ..... .....	5.78 4.74	5.00 5.00	1.07 .90 .....	..... ..... .....	7.81 12.65	8.00 12.00	\$13.02 16.31	\$12.20 15.80
20441 20352 2 374 20353 20477 20437 20315 F2636	Dead Shot Phosphate..... Dissolved Animal Bone..... Excelsior Alkaline Bone..... Fine Ground Bone..... Gem Alkaline Phosphate..... Im. Wheat and Clover Producer Pure Ground Bone..... Pure Ground Bone.....	Melrose..... Baltimore..... Baltimore..... St. Dennis..... Singerly..... Smithsburg..... Laurel..... Mt. Airy..... (J. A. Engle).....	.63 2.42 3.77 1.13 4.44 4.11	.50 2.50 3.00 1.00 4.50 4.50	2.02 5.02 3.17 2.34	2.00 5.00 3.00 2.00	1.47 3.70 1.05 *23.32 .37 2.40 *21.41 *23.21	 *22.80 20.60 *22.00	7.66 11.62 9.92 6.15 11.95	8.00 12.00 10.00 6.00 12.00	14.32 25.10 14.16 29.07 8.78 22.16 30.61 30.37	13.60 24.40 14.00 25.68 8.40 20.40 30.36 31.20
20442 20466 F2668	Royal Alkaline Bone..... Square Deal Phosphate..... Super-Phosphate 16%.....	Melrose..... White Hall..... Cecilton..... (E. N. Crawford)	 2.12	 2.00	4.52 4.05	4.00 4.00	.80 1.90 .82	..... ..... .....	9.88 8.05 15.85	10.00 8.00 16.00	13.57 22.95 14.43	13.00 21.60 14.40
20532	Top Notch Phosphate..... A. A. C. Co. (Canton), Balto., Md.	Baltimore.....	2.15	2.00	5.87	5.00	1.50	.....	8.03	8.00	24.71	22.60
20409 20410	Baker's Dissolved S. C. Bone... Baker's Special Wheat, Corn and Grass Mixture.....	Emmitsburg..... Emmitsburg.....	 1.04	 1.00	 2.35	 2.00	1.75 1.62	.....	14.62 8.33	14.00 9.00	13.51 17.16	12.60 16.80

FERTILIZER ANALYSES

5

20331	Baker's Standard H. G. Guano.	2.59	2.50	3.09	3.00	1.82	7.94	8.00	23.71	22.60
20411	Eagle Phosphate.....	1.11	1.00	1.12	1.00	1.32	7.01	7.00	13.15	13.40
2412	Harrow Brand Crop Grower...	1.28	1.00	1.33	1.00	1.80	7.49	8.00	16.16	14.60
20467	Patrons Bone Mixture.....	2.12	2.00	3.12	2.50	8.52	6.34	5.00	22.62	20.50
20332	Potato Manure.....	1.64	1.50	4.93	5.00	2.15	6.27	6.00	19.87	18.20
20514	Resurgam Guano.....	1.13	1.00	4.47	4.00	1.65	8.18	8.00	19.47	17.60
20316	Soluble Alkaline Bone.....	.....	.....	3.39	3.00	1.15	12.19	12.00	14.59	13.80
20413	Soluble Bone and Potash.....	.....	.....	2.02	2.00	.70	10.54	10.00	11.65	11.00
20404	A. C. Co. (Detrick), Balto., Md.	1.45	1.50	2.09	2.00	1.40	9.79	9.00	20.20	18.80
20502	Ammoniated Bone Phosphate...	.....	.....	2.09	2.00	1.22	11.31	11.00	12.51	11.90
20543	Bone and Potash, 16 and 4 Mix- ture.	.....	.....	.....	.....	.....	.....	.....	.....	.....
20528	B. & P. Special Fertilizer.....	1.25	1.21	3.51	3.00	1.02	12.08	12.00	14.58	13.80
20430	Corn and Oats Fertilizer.....	.....	.....	3.12	3.00	1.50	9.10	9.00	19.64	18.64
20443	Dissolved S. C. Bone.....	1.19	1.00	2.01	2.00	1.47	14.10	14.00	12.98	12.60
20375	Imperial Compound.....	2.10	2.00	3.26	3.00	2.30	8.04	8.00	17.34	15.60
20405	Kangaroo Complete Compound...	.87	1.00	1.02	1.00	1.82	8.35	8.00	22.41	20.60
20376	Paragon Ammoniated Bone Phosphate and Potash.	.....	.....	.....	.....	1.05	6.20	7.00	12.36	13.40
20376 F 2634	P. & B. Special Fertilizer.....	.....	.....	3.07	3.00	1.17	11.92	12.00	14.03	13.80
20406	P. & B. Special Fertilizer.....	.....	.....	3.23	3.00	.85	12.23	12.00	14.50	13.80
20362	Quick Step Bone Phosphate and Potash.	3.07	3.00	4.08	4.00	1.70	8.82	8.00	27.62	25.60
20444	Special Mixture.....	1.04	1.00	1.18	1.00	1.45	8.11	8.00	15.65	14.60
20407	Standard Potash Fertilizer.....	1.33	1.50	5.03	5.00	3.10	6.03	8.00	18.83	20.60
20507	Victory Alkaline Bone.....	.....	.....	5.34	5.00	1.30	11.71	12.00	16.14	15.80
20333	A. A. C. Co. (Lazaretto), Balto., Md.	1.09	1.00	2.09	2.00	1.47	7.89	8.00	16.51	15.60
20334	Ammoniated Bone Phosphate...	1.31	1.25	3.07	3.00	1.95	9.02	9.00	19.91	18.80
20335	Bone Compound.....	2.05	2.00	2.01	2.00	1.87	8.02	8.00	20.50	19.60
20400	Crop Grower.....	.....	.....	.....	.....	1.37	13.26	14.00	12.20	12.60
20541	Dissolved Bone Phosphate.....	.....	.....	.....	.....	.50	16.80	16.00	15.22	14.40
20445	Dissolved Bone and Potash.....	.....	.....	2.35	2.00	1.22	10.42	10.00	11.97	11.00
20530	Excelsior A. A. A.....	1.16	1.00	1.25	1.00	1.20	7.07	7.00	14.85	13.40
20336	Forsythe & Linthicum Mixture.	2.27	2.25	3.92	4.00	4.17	9.47	9.00	26.03	25.60

*Total Phosphoric Acid.

No.	Name and Address of Manufacturer and Name of Fertilizer.	Place of Sampling (and Sampler, when not the Collegc.)	NITROGEN Calculated as AMMONIA.		POTASH, K ₂ O.		PHOSPHORIC ACID.				Comparative Value per Ton Guaranteed.		
			Found.	Guaranteed.	Found.	Guaranteed.	Insoluble.	Available.	Found.				
20300	A. A. C. Co. (Lazaretto), Balto., Md. High Grade Dissolved Bone and Potash.	Baltimore	.....	.....	5.23	5.00	.84	.....	.....	10.02	10.00	\$14.42	\$14.00
20446	High Grade Dissolved Bone and Potash	Union Mills.	.....	.....	5.45	5.00	.72	.....	.....	12.53	12.00	16.87	15.80
F2667	High Grade Dissolved Bone Phos- phate and Potash.	Locust Grove (C. S. Hill).	.....	.....	3.13	3.00	1.25	.....	.....	12.19	12.00	14.40	13.80
20301	Retriever Animal Bone Fertilizer	Baltimore	2.34	2.25	4.46	4.00	4.71	4.50	.....	8.01	9.00	25.31	25.60
20491	Special Wheat and Grass Ferti- lizer.	Baltimore	1.13	1.00	4.50	4.00	2.17	.....	.....	7.65	8.00	19.07	17.60
20512	Tomato Compound.	Bellevue.	1.52	1.50	5.01	5.00	1.70	.....	.....	6.06	6.00	19.04	18.20
20337	Wheat, Corn and Grass Grower.	Baltimore	.73	.50	2.02	2.00	1.22	.....	.....	8.15	8.00	15.41	13.60
20488	A. A. C. Co. (Maryland), Balto., Md Dissolved S. C. Phosphate.	Smithsburg.	.....	.....	.....	.....	1.57	.....	.....	14.66	14.00	13.50	12.60
20489	Magic Guano	Smithsburg.	1.09	1.00	2.24	2.00	1.95	.....	.....	8.71	9.00	17.83	16.80
20508	Tornado Fertilizer.	Baltimore	.....	.....	5.10	5.00	1.12	.....	.....	11.84	12.00	15.98	15.80
20503	A. A. Co. (Nickerson), Easton, Md Alkaline Bone and Potash.	Baltimore	.....	.....	2.20	2.00	1.07	.....	.....	10.01	10.00	11.42	11.00
20377	Dissolved Bone and Potash.	Baltimore	.....	.....	5.76	5.00	.80	.....	.....	12.01	12.00	16.73	15.80
20542	Eastern Shore Domestic Guano.	Baltimore	2.13	2.00	3.34	3.00	1.57	.....	.....	8.23	8.00	22.37	20.60
20529	English Mixture.	Baltimore	1.09	1.00	2.15	2.00	1.42	.....	.....	7.94	8.00	16.61	15.60

FERTILIZER ANALYSES

7

A. A. C. Co. (Packers Union), Rutland, Vt.												
20871	American Wheat and Rye Grower.	Baltimore.....	1.11	1.00	2.14	2.00	1.52	.....	7.79	8.00	16.54	15.60
20517	Banner Wheat Grower.....	Baltimore.....	.....	.....	2.16	2.00	1.02	.....	10.17	10.00	11.51	11.00
20524	Universal Fertilizer.....	Baltimore.....	1.09	1.00	4.07	4.00	1.25	.....	8.60	8.00	19.25	17.60
F2574	A. A. C. Co. (Reese), Balto., Md. Special Crown.....	Locust Grove (C. S. Hill).....	.....	.....	2.29	2.00	.98	.....	11.82	12.00	13.13	12.80
20338	A. A. C. Co. (Slingluff), Balto., Md. Trucker's Favorite.....	Annapolis.....	4.40	3.75	3.47	3.00	.82	.....	8.41	8.00	31.49	27.60
23360	A. A. C. Co. (Susquehanna), Baltimore, Md. Crop Grower.....	Baltimore.....	1.09	1.00	1.29	1.00	1.27	.....	6.39	7.00	14.43	13.40
20447	Grain and Grass Producer.....	Hampstead.....	.....	.....	3.24	3.00	1.05	.....	12.45	12.00	14.66	13.80
20378	High Grade Bone and Potash.....	Baltimore.....	.....	.....	5.12	5.00	1.00	.....	12.15	12.00	16.26	15.80
20473	Pure Bone Phosphate.....	Zion.....	2.03	2.00	2.13	2.00	4.47	1.00	8.74	9.00	22.73	21.20
20423	Pure Bone Phosphate.....	Zion.....	2.03	2.00	2.02	2.00	4.17	1.00	8.87	9.00	22.45	21.20
20518	Soluble Bone and Potash.....	Baltimore.....	.....	.....	2.01	2.00	.95	.....	10.02	10.00	11.22	11.00
20448	X. X. V. Phosphate.....	Hampstead.....	1.09	1.00	1.27	1.00	1.15	.....	8.49	8.00	16.28	14.60
20396	A. A. C. Co. (Tygart Allen), Philadelphia, Pa. Standard Bone Phosphate.....	Baltimore.....	2.12	2.00	2.19	2.00	2.60	.....	7.36	8.00	20.54	19.60
A. A. C. Co. (Wheeler), Rutland, Vermont.												
20520	Electrical Dissolved Bone.....	Baltimore.....	.....	.....	.....	.....	1.07	.....	14.15	14.00	12.95	12.60
20521	Royal Wheat Grower.....	Baltimore.....	1.25	1.00	2.13	2.00	1.35	.....	8.23	8.00	17.55	15.60
20387	Wheat and Clover Fertilizer....	Baltimore.....	.....	.....	2.22	2.00	.95	.....	10.14	10.00	11.54	11.00
20449	A. A. C. Co. (Zell), Balto., Md. Ammoniated Bone Super-Phosphate.....	Taneytown.....	2.13	2.00	2.08	2.00	1.82	.....	8.17	8.00	21.13	19.60
F2677	Ammoniated Bone Super-Phosphate.....	Downesville (W. H. Armstrong).....	2.05	2.00	2.45	2.00	2.05	.....	8.02	8.00	21.09	19.60

No.	Name and Address of Manufacturer and Name of Fertilizer.	Place of Sampling (and Sampler, when not the College.)	NITROGEN Calculated as AMMONIA.		POTASH, K ₂ O.		PHOSPHORIC ACID.				Comparative Value per Ton Guaranteed.	Comparative Value per Ton Guaranteed.	
			Found.	Guaranteed.	Found.	Guaranteed.	Insoluble.	Available.	Found.	Guaranteed.			
A. A. C. Co. (Zell), Balto., Md.													
20468	Dissolved Bone Phosphate.....	White Hall.....	1.51	1.00	.....	.....	1.77	.....	14.70	14.00	\$13.58	\$12.60	
20450	Economizer Phosphate.....	Taneytown.....	.....	.....	2.02	2.00	1.32	.....	8.20	8.00	16.43	15.60	
20513	Electric Phosphate.....	Easton.....	.....	.....	2.28	2.00	1.00	.....	10.11	10.00	11.58	11.00	
20401	Hustler Phosphate.....	Baltimore.....	1.01	1.00	3.19	3.00	1.90	.....	8.44	9.00	18.12	17.80	
20317	Little Giant.....	Laurel.....	1.08	1.00	1.15	1.00	1.42	.....	7.39	7.00	14.91	13.40	
20534	Special Compound.....	Catonsville.....	3.02	3.00	4.10	4.00	1.67	.....	8.21	8.00	26.70	25.60	
20363	Special Compound for Potatoes and Vegetables.....	Hyattsville.....	2.93	3.00	3.86	4.00	2.52	.....	8.34	8.00	26.60	25.60	
Acme Guano Co., Baltimore, Md.													
20504	Royal Ammoniated Bone.....	Hood's Mills.....	1.16	2.00	.14	2.00	4.25	.....	9.20	8.00	17.52	19.60	
F2701	Special Mixture.....	Bucklodge (V. Reid)	.90	.....	4.28	.....	5.88	.....	8.91	.....	20.92	.....	
American Fert. Co., Balto., Md.													
20550	American Champion Grain Grower.....	.....	1.11	1.00	3.71	4.00	1.62	1.00	8.02	8.00	18.42	18.00	
20496	American Special Super-Phos- phate.....	Baltimore.....	.....	.....	3.02	3.00	1.20	1.00	6.15	6.00	8.80	8.60	
20492	Dissolved Bone and Potash....	Baltimore.....	.....	.....	1.67	2.00	1.35	1.00	10.05	10.00	10.99	11.20	
20505	High Grade Acid Phosphate....	Baltimore.....	.....	.....	.....	.....	1.65	1.00	13.17	14.00	12.18	12.80	
20493	Special Compound Guano.....	Baltimore.....	.60	.50	2.02	3.00	1.97	1.00	7.07	7.00	13.69	13.80	
20494	Special Potash Mixture.....	Baltimore.....	.....	.....	4.23	4.00	.87	1.00	7.53	8.00	11.18	11.40	

FERTILIZER ANALYSES

9

Armour Fert. Works, Balto., Md.												
20380	Acid Phosphate.....	Baltimore.....	2.82	3.00	2.02	2.00	15	50	16.08	16.00	14.50	14.50
20397	Ammoniated Bone with Potash.....	Baltimore.....	3.09	3.00	2.02	2.00	1.20	.50	6.28	6.00	21.32	21.40
20302	Bone Meal.....	Baltimore.....		3.00			*26.46	*21.00			28.24	24.60
20381	Cereal Phosphate.....	Baltimore.....					.07	.50	9.96	10.00	8.97	9.10
20431	Claude Park's Fearless.....	Crumpton.....	.60	.50	2.24	2.00	.82		7.97	8.00	14.41	13.60
20318	Claude Park's Fearless.....	Baltimore.....	.61	.50	2.07	2.00	.85		8.19	8.00	14.68	13.60
20539	Fruit and Root Crop Special.....	Baltimore.....	2.01	2.00	5.09	5.00	1.50	.50	8.02	8.00	23.35	22.80
20382	Grain Grower.....	Baltimore.....	a2.22	2.00	2.25	2.00	1.30	.50	7.63	8.00	20.81	19.80
20354	High Grade Potato.....	Jessups.....	a1.89	2.00	10.82	10.00	1.50	.50	8.03	8.00	28.62	27.80
20354	Manure Substitute.....	Baltimore.....	3.67	4.00	4.48	4.00	1.85	.50	6.79	6.00	28.05	27.40
20531	Phosphate and Potash.....	Baltimore.....			4.79	5.00	.65	.50	12.23	12.00	15.93	15.90
20506	Phosphate and Potash No. 1.....	Baltimore.....			1.88	2.00	1.52	.50	10.02	10.00	11.20	11.10
20495	Phosphate and Potash No. 2.....	Baltimore.....			4.90	5.00	.60	.50	8.34	8.00	12.53	12.30
2-303	Raw Bone Meal.....	Baltimore.....	4.32	4.50			*22.40	*22.00			30.72	31.20
20403	Royal Ammoniated Bone.....	Baltimore.....	1.19	1.00	3.64	4.00	.45	.50	8.14	8.00	18.35	17.80
20304	Special Mixture.....	Baltimore.....	.58	.50	1.03	1.00	.45	.50	7.92	8.00	13.03	12.80
20364	Special Mixture.....	Baltimore.....	2.90	2.90	3.87	3.75	3.52		9.90	*11.00	28.36	28.55
F2652	Special Mixture.....	Mt. Airy (C. E. Albaugh.)										
20365	Star Phosphate.....	Baltimore.....					1.02	.50	14.08	14.00	12.87	12.70
F2682	Star Phosphate.....	Lander (D. M. Souder).					.95	.50	14.10	14.00	12.88	12.70
20526	Superior Bone and Potash.....	Baltimore.....	1.01	1.00	6.35	7.00	1.00	.50	8.39	8.00	20.86	20.80
20383	Wheat, Corn and Oats Special.....	Baltimore.....	1.02	1.00	.93	1.00	.52	.50	6.89	7.00	13.49	13.60
20305	Wheat and Clover Fertilizer.....	Baltimore.....			5.18	5.00	.40	.50	10.12	10.00	14.37	14.10
F2682	Wheat and Clover Fertilizer.....	Golt (A. H. Johnson).			5.10	5.00	.72	.50	9.42	10.00	13.72	14.10
20432	Wheat and Grass Special.....	Chestertown.....	1.06	1.00	4.82	5.00	.67	.50	7.36	7.00	18.16	17.60
20366	Wheat Special.....	Baltimore.....	1.02	1.00	2.11	2.00	.75	.50	7.91	8.00	15.98	15.80
20367	Atlantic Fert. Co., Baltimore, Md.	Baltimore.....	1.43	1.21	4.01	4.00	1.77		7.65	7.00	19.62	17.24
20306	Arrow Brand Special.....	Baltimore.....					.52		15.52	14.00	14.07	12.60
20498	Atlantic Dissolved Bone Phosphate.....	Baltimore.....					.30		16.25	16.00	14.69	14.40
20307	Atlantic High Grade Bone and Potash.....	Baltimore.....			5.49	5.00	.53		11.70	12.00	16.13	15.80
20497	Crown Phosphate and Potash.....	Baltimore.....			3.36	3.00	.82		7.21	6.00	10.01	8.40

*Total Phosphoric Acid. a Contains Nitrate.

No.	Name and Address of Manufacturer and Name of Fertilizer.	Place of Sampling (and Sampler, when not the College.)	NITROGEN Calculated as AMMONIA.		POTASH, K ₂ O.		PHOSPHORIC ACID.				Comparative Value per Ton Guaranteed.
			Found.	Guaranteed.	Found.	Guaranteed.	Insoluble.		Available.	Comparative Value per Ton Found.	
							Found.	Guaranteed.			
Atlantic Fert. Co., Baltimore, Md.											
20433	Farmers' Alkaline Bone.....	Centreville.....	1.88	2.00	2.31	2.00	.90	9.78	10.00	11.29	\$11.00
20527	G. G. G. Golden Grain Grower.....	Baltimore.....	1.81	2.00	4.55	4.00	1.22	9.38	9.00	23.82	22.80
20434	Gold Medal.....	Centreville.....	1.81	2.00	3.51	3.00	1.10	8.69	8.00	21.62	20.60
20499	Jumbo Crop Grower.....	Baltimore.....	.....	.....	5.26	5.00	.67	8.21	8.00	12.78	12.20
20319	Matchless Animal Bone.....	Laurel.....	.68	.50	3.37	3.00	1.12	8.14	8.00	16.31	15.00
20435	Reliance Special Mixture.....	Centreville.....	1.14	1.00	1.41	1.00	.95	7.91	8.00	15.84	14.60
20540	Standard Bone Compound.....	Baltimore.....	1.67	2.00	1.75	2.00	.60	9.33	8.00	19.87	19.60
C. A. Baile & Co., Medford, Md.											
20451	Bone Phosphate No. 3.....	Medford.....	1.91	1.25	2.42	2.00	1.22	1.50	9.51	9.50	21.96
Baltimore Fert. Co., Balto., Md.											
20452	Honest Acid Phosphate.....	Lineboro.....	.....	.....	.....	.....	1.15	15.11	14.00	13.83	12.60
20453	Honest A. K. Bone.....	Lineboro.....	.....	.....	3.29	3.00	1.85	9.45	8.00	12.17	10.20
20479	Honest Ammoniated Bone.....	Baltimore.....	2.01	2.00	1.93	2.00	2.60	7.74	8.00	20.30	19.60
20522	Honest Bone Phosphate.....	Baltimore.....	.44	.25	1.58	1.00	.87	5.87	7.00	10.73	10.40
20339	Honest Bone and Potash.....	Ellicott City.....	.....	.....	2.60	2.00	2.00	9.71	10.00	11.74	11.00
20500	Honest Crop Grower.....	Baltimore.....	1.04	1.00	1.50	1.00	1.05	7.40	8.00	14.96	14.60
20398	Honest Harvest.....	Baltimore.....	1.02	1.25	2.63	2.00	1.15	8.25	8.00	17.12	17.00
20320	Honest Potato Grower.....	Baltimore.....	2.18	2.00	7.07	8.00	.82	1.00	5.60	22.84	23.60
20399	Honest Standard.....	Baltimore.....	1.04	1.25	5.11	3.00	.85	8.78	10.00	20.15	20.00
20340	Honest Success.....	Ellicott City.....	1.23	1.00	4.07	4.00	1.05	7.02	7.00	17.83	16.40
20321	Old Honesty.....	Baltimore.....	.36	.50	2.75	2.00	.70	7.57	8.00	13.55	14.00

Balto. Pulverizing Co., Balto., Md.											
20501	Ammoniated Butcher's Bone...	Baltimore	1.08	1.50	1.62	1.50	2.25	10.85	9.00	19.86	18.30
20351	Dissolved Animal Bone...	Baltimore	1.55	2.00	2.26	2.00	2.20	11.36	14.00	20.71	24.80
20341	Practical Fertilizer...	Baltimore	.51	.50			2.70	8.82	8.00	15.96	13.60
20421	Pure Raw Bone...	Hood's Mills	3.09				*21.57			25.30	
20545	Special Fall Mixture...	Baltimore			2.09	2.00	.75	9.04	8.00	10.38	9.40
20422	Special Mixture...	Hood's Mills			5.14	5.00	1.15	10.49	12.00	14.81	15.80
20322	Special Strawberry Compound...	Baltimore	a4.57	4.00	2.15	3.00	2.07	6.27	5.00	26.81	25.00
Baugh & Sons Co., Balto., Md.											
20342	Acid Phosphate 16%...	Baltimore					.90	15.61	16.00	14.23	14.40
20308	Ammoniated Soluble Alkaline...	Baltimore	.68	.50	2.02	2.00	1.47	7.76	8.00	14.64	13.60
20555	Animal Bone and Potash Compound...	Baltimore	2.30	2.00	2.29	2.00	2.80	8.60	8.00	22.93	19.60
20556	Complete Animal Bone Fertilizer...	Jessups	2.01	2.00	5.40	5.00	2.57	8.51	8.00	24.68	22.60
20355	Double Eagle Phosphate...	Baltimore	2.56	2.00	1.29	1.00	2.02	8.37	8.50	22.38	19.20
20553	Excelsior Guano...	Baltimore	1.19	1.00	4.15	4.00	1.95	8.46	8.00	19.84	17.60
20356	Export Bone with Potash...	Gaithersburg	2.35	2.00	1.40	2.00	7.27	5.96	*11.00	20.86	23.20
20388	Fine Ground Bone...	Baltimore	3.62	3.00			*22.95	*22.90		28.25	25.74
20343	General Crop Grower...	Baltimore	1.19	1.00	1.45	1.00	1.45	8.56	8.00	17.06	14.60
20323	High Grade Acid Phosphate...	Loys			4.03	4.00	2.00	14.02	14.00	13.02	12.60
20416	High Grade Potash Mixture...	Gaithersburg			4.43	4.00	1.80	10.11	10.00	13.49	13.00
20389	High Grade Potash Mixture...	Beltsville			16.40		1.35	10.06	10.00	13.75	13.00
20490	Manure Salt...	Hagerstown	1.81	1.75	3.27	3.00	6.12	7.19	*12.00	21.59	24.40
20368	One-Quarter Mixture...	Baltimore	1.26	1.21	2.13	2.00	2.47	7.81	8.00	17.53	16.44
20533	Peninsula Grain Producer...	Baltimore	5.14	5.00	7.68	7.00	1.00	6.70	6.00	36.68	34.20
F2640	Peruvian Guano Substitute...	Golt (A. H. John-son)			5.18	5.00	1.45	9.64	10.00	14.15	14.00
	Phosphate and Potash...										
20554	Phosphate and Potash 12 and 3...	Cecilton (J. A. Pierce)			3.29	3.00	1.72	12.39	12.00	14.78	13.80
F2648	Phosphate and Potash 12 and 3...	Baltimore			3.25	3.00	1.50	12.02	12.00	14.37	13.80
20551	Phosphate and Potash 12 and 5...	Baltimore			5.67	5.00	2.07	11.81	12.00	16.71	15.80
20480	Pure Bone and Muriate of Potash Mixture...	Baltimore	3.21	3.00	4.51	5.00	6.70	8.89	*15.00	30.70	35.00
20344	Pure Dissolved Animal Bone...	Baltimore	2.51	2.50			2.67	12.71	13.00	26.36	25.60
20598	Pure Raw Bone Meal...	Beltsville	4.66	4.50			*20.26			30.80	30.90
20557	Pure Raw Bone Meal...		4.52	4.50			*23.01			31.29	30.90

aContains Nitrate. *Total Phosphoric Acid.

No.	Name and Address of Manufacturer and Name of Fertilizer.	Place of Sampling (and Sampler, when not the College.)	NITROGEN Calculated as AMMONIA.		POTASH. K ₂ O.		PHOSPHORIC ACID.				Comparative Value per Ton Found.	
			Found.	Guaranteed.	Found.	Guaranteed.	Insoluble.		Available.			
							Found.	Guaranteed.	Found.	Guaranteed.		
20345	Baugh & Sons Co., Balto., Md. Soluble Alkaline Super-Phos- phate.	Baltimore.....	.....	.....	2.30	2.00	1.90	.....	10.10	10.00	\$11.77	\$11.00
20328	Special Alkaline Super-Phos- phate 8 and 5.	Federalburg.....	.....	.....	5.09	5.00	1.35	.....	7.77	8.00	12.35	12.20
20599	Special Mixture.....	Beltsville.....	4.30	.....	5.35	.....	9.25	.....	5.59	.....	32.96	.....
F2714	Special Mixture.....	Hagerstown (M. Wingert).	2.49	2.00	8.07	7.00	1.45	.....	10.06	10.50	30.68	27.60
F2687	Special Mixture.....	Reisterstown (F. S. Fowble).	2.22	.....	5.41	.....	8.95	.....	8.59	.....	28.18	.....
F2609	Special Mixture	Hagerstown (M. Wingert).	a2.24	2.00	6.35	7.00	1.15	.....	11.31	10.50	29.34	27.60
20546	Sulphate Potash.....	Easton.....	.....	.....	51.65	48.00	*5.74	.....	.....	.....	33.59	30.00
F2642	Tankage	Union Mills (D. J. Bowersox).	10.05	10.00	.....	.....	.....	.....	.....	.....	.....	.....
20515	Tomato Compound.....	Aberdeen.....	a2.44	2.00	2.47	2.00	2.40	.....	8.20	8.00	23.03	19.60
20390	Walker's Mixture	Gaithersburg.....	1.08	1.00	1.74	1.00	1.92	.....	9.14	8.00	17.80	14.60
20310	Wheat Fertilizer	Baltimore.....	2.29	2.00	2.60	2.00	2.67	.....	7.87	8.00	22.27	19.60
Beck-Walker Co., Chestertown, Md.												
20436	Good Drilling	Chestertown.....	.....	.....	5.11	5.00	1.65	.....	9.95	10.00	14.30	14.00
20437	Special Bone Mixture.....	Chestertown.....	1.08	1.00	2.85	2.00	3.12	.....	8.15	8.00	18.20	15.60
20438	Try Me Super-Phosphate.....	Chestertown.....	.63	.50	3.65	3.00	3.32	.....	8.89	9.00	18.17	15.80

FERTILIZER ANALYSES

13

20454	N. T. Bennett, New Windsor, Md.	New Windsor.....	1.02	.75	3.16	2.50	2.35	1.00	9.09	8.00	19.09	15.50
20455	Butcherhouse Phosphate.....	New Windsor.....	.70	.50	2.29	2.00	1.45	2.00	9.26	7.00	16.78	13.20
20346	Berg Company, Philadelphia, Pa.	Annapolis.....	4.28	b3.65	.....	.....	*21.46	*22.00	.....	.....	30.00	27.80
20516	Raw Bone.....	Perryman.....	a2.70	3.00	7.48	10.00	3.30	.....	7.41	8.00	28.49	31.60
20474	Standard Bone Manure.....	Blue Ball.....	2.13	b3.65	5.44	6.00	6.52	.....	7.76	8.89	26.88	31.27
20417	Vigor Volo Bone and Potash.....	Hagerstown.....	1.76	1.50	2.81	2.50	5.77	.....	8.62	8.00	22.50	18.10
20439	W. H. Bixler, Hagerstown, Md.	Lisbon.....	.....	.....	12.18	12.00	.....	.....	.....	.....	.....	.....
20391	Jas. Bonday, Jr., & Co., Balto., Md.	Rockville.....	2.03	2.00	2.35	2.00	2.10	.....	7.21	8.00	19.96	19.60
20484	Bryant Fert. Co., Alexandria, Va.	Dickerson.....	.....	.....	3.88	4.00	.75	.....	9.85	10.00	12.90	13.00
F2700	Bryant's Formula "E".....	Rockville (M. Farquhar)	.....	.....	4.02	4.00	1.42	1.00	10.84	10.00	14.06	13.20
20392	High Grade Potash Mixture.....	Gaithersburg.....	1.16	1.00	1.21	1.00	1.33	.....	7.22	8.00	15.04	14.60
20485	Queen Ammoniated Dissolved Bone.....	Poolesville.....	4.68	4.50	.....	.....	*22.83	*21.50	.....	.....	32.42	30.90
20486	Raw Bone.....	Poolesville.....	.....	.....	.....	.....	.75	.....	14.20	14.00	12.93	12.60
20440	S. C. Dissolved Bone.....	Dickerson.....	.....	.....	2.16	2.00	1.05	.....	9.85	10.00	11.24	11.00
20393	H. Bryant's Son, Alexandria, Va.	Rockville.....	1.38	1.00	1.02	1.00	1.25	.....	8.03	8.00	16.68	14.60
20408	Alkaline Bone Mixture.....	Beallsville.....	1.96	2.00	3.45	3.00	1.81	.....	8.02	8.00	21.63	20.60
20394	Empress Ammoniated Dissolved Bone.....	Easton.....	1.96	2.00	2.36	2.00	1.60	.....	8.43	8.00	20.96	19.60
19499	Fish, Bone and Potash.....	.....	.....	.....	.....	.....	9.95	2.00	7.06	d15.00	.....	.....
20475	Peerless Formula.....	Calvert.....	a1.57	1.50	.....	.....	1.60	.....	15.38	14.00	14.10	12.60
20478	Coe Mortimer & Co., N. Y., N. Y.	Calvert.....	.....	.....	4.52	4.00	1.45	.....	7.75	7.00	20.68	18.40
	Thos. Phosphate Powder (Basic Slag).	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
	H. Cope & Co., Lincoln Univ., Pa.	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
	Acid Phosphate.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
	Wheat Grower and Complete Manure.	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....

aContains Nitrate. *Total Phosphoric Acid. d"Wagner's Method"

No.	Name and Address of Manufacturer and Name of Fertilizer.	Place of Sampling (and Sampler, when not the College.)	NITROGEN Calculated as AMMONIA.		POTASH, K ₂ O.		PHOSPHORIC ACID.		Comparative Value per Ton Found.	Comparative Value per Ton Guaranteed.		
			Found.	Guaranteed.	Found.	Guaranteed.	Insoluble.	Available.				
											Found.	Guaranteed.
Josiah Cope & Co., Oxford, Pa.												
20424	Ammoniated Bone Phosphate.....	Rising Sun.....	1.03	1.00	3.03	3.00	1.60	.....	7.92	8.00	\$17.48	\$16.60
20425	Pure Bone Phosphate.....	Rising Sun.....	2.41	2.25	4.37	4.00	4.70	4.50	8.02	9.00	25.51	25.60
20523	Wheat and Grass Special.....	Baltimore.....	1.43	1.00	1.70	1.00	1.60	.....	7.64	8.00	17.23	14.60
Draper, Davis & Co., Milford, Del.												
20535	Bone Phosphate.....	Delmar.....	.90	1.00	3.63	2.00	1.35	.....	8.79	8.00	18.32	15.60
20536	Wheat Phosphate.....	Delmar.....	1.43	2.00	2.76	2.50	2.95	.....	9.01	9.00	20.67	21.30
J. W. Dorsey, Ellicott City, Md.												
20347	Mixture "D".....	Ellicott City.....	2.56	2.25	4.40	4.00	1.60	1.50	9.08	9.00	26.18	24.40
Dudley & Carpenter, Balto., Md.												
20509	California Tobacco Compound.....	Baltimore.....	4.10	4.00	2.33	2.00	2.85	.....	8.01	8.00	29.48	27.60
20348	Special Wheat Mixture.....	Baltimore.....	.....	.....	3.22	3.00	1.00	.....	11.75	12.00	14.00	13.80
Edelen Bros., Baltimore, Md.												
20481	Special Wheat and Grain Mix- ture.	Baltimore.....	2.25	1.00	2.23	2.00	2.05	.....	9.95	9.00	23.99	16.80
Englar Bros. Co., Linwood, Md.												
20456	Ammoniated Bone Phos. No. 1.....	Linwood.....	2.13	2.00	2.69	1.50	1.37	.....	9.03	9.50	22.67	20.90
29457	Ammoniated Bone Phos. No. 2.....	Linwood.....	1.25	1.00	2.93	2.40	.82	.....	9.75	9.80	19.96	18.16

Eureka Fert. Co., Perryville, Md.											
20426	Alkaline Bone and Potash.....	Rising Sun.....	.....	2.13	2.00	1.52	.....	9.38	10.00	10.87	11.00
20476	Fish, Bone and Potash.....	Rising Sun.....	.70	1.05	1.00	2.00	1.00	7.96	8.00	14.20	13.00
20427	Grain and Grass Mixture.....	Rising Sun.....	1.43	2.62	2.00	2.30	.....	7.16	8.00	17.81	15.60
20469	Ground Bone.....	White Hall.....	2.87	.....	.....	*24.45	*23.00	.....	.....	26.15	25.80
20428	P. and P. Super Phosphate.....	Rising Sun.....	.....	.....	.....	2.15	.....	14.54	14.00	13.52	12.60
W. S. Farmer & Co., Balto., Md.											
20357	B. and P. Phosphate.....	Baltimore.....	.....	2.30	2.00	.95	.....	10.03	10.00	11.52	11.00
20511	Clyde Brand.....	Baltimore.....	1.11	2.34	2.00	1.57	.....	7.91	8.00	16.90	15.60
20358	Empire Alkaline Bone.....	Baltimore.....	.....	5.40	5.00	.90	.....	10.02	10.00	14.60	14.00
20369	Harvest Queen.....	Baltimore.....	1.47	3.14	3.00	2.25	.....	8.61	9.00	20.25	18.80
20361	Superior Dissolved S. C. Bone..	Baltimore.....	.....	.....	.....	1.02	.....	16.02	16.00	14.62	14.40
Farmers' Fert. Co., Union Bridge, Maryland.											
20458	Bone Phosphate No. 1.....	Union Bridge.....	1.69	3.15	2.25	2.60	.....	8.57	8.00	21.23	17.85
20418	Union Bridge Favorite.....	Walkersville.....	1.21	2.37	2.00	1.67	.....	8.69	8.00	13.31	15.60
Farmers' Fert. & Feed Co., Westminster, Md.											
20459	Bone Phosphate No. 1.....	Westminster.....	2.53	2.50	2.50	.92	2.00	9.01	9.00	24.26	24.10
20460	Bone Phosphate No. 2.....	Westminster.....	2.03	2.00	2.50	.90	1.00	9.22	9.00	22.32	21.70
20461	Bone Phosphate No. 3.....	Westminster.....	1.55	1.50	3.00	1.05	1.00	8.03	8.00	20.16	19.00
20462	Carroll Bone Phosphate.....	Westminster.....	.84	.75	2.00	.40	1.00	6.61	7.00	14.30	13.80
20463	High Grade Phosphate.....	Westminster.....	2.08	2.00	4.92	1.92	1.00	11.55	11.00	27.87	26.60
20464	XX Bone Phosphate.....	Snydersburg.....	1.11	1.00	3.02	.65	1.00	9.53	9.00	19.22	18.20
Farmers' & Planters' Co., Salisbury, Md.											
20537	Fish Mixture.....	Salisbury.....	2.03	2.00	2.31	1.50	.....	7.71	8.00	20.28	19.60
20538	General Crop Grower Mixture..	Salisbury.....	.92	1.00	1.65	.65	.....	12.34	10.00	20.40	18.00
J. W. Freeman, Great Mills, Md.											
20359	Crop Grower.....	Baltimore.....	1.13	1.00	1.30	1.45	1.50	7.35	8.00	15.42	15.20
T. H. Gill, Avalon, Va.											
20482	Try Me Fertilizer.....	Baltimore.....	a2.35	2.00	2.38	2.47	.....	8.50	9.00	22.97	20.80

d"Wagner's Method."

*Total Phosphoric Acid.

bNitrogen 3% = 3.65% Ammonia.

aContains Nitrate.

No.	Name and Address of Manufacturer and Name of Fertilizer.	Place of Sampling (and Sampler, when not the College.)	NITROGEN Calculated as AMMONIA.		POTASH K ₂ O.		PHOSPHORIC ACID.				Comparative Value per Ton Found.	Comparative Value per Ton Guaranteed.
			Found.	Guaranteed.	Found.	Guaranteed.	Insoluble.	Available.	Found.	Guaranteed.		
20419	Griffith & Boyd Co., Balto., Md.											
20311	Ammoniated Bone Phosphate...	Walkersville	1.81	2.00	2.35	2.00	1.12	.....	9.21	8.00	\$21.09	\$19.60
20465	Boss Fertilizer	Baltimore	2.27	2.00	4.78	4.50	2.67	1.00	7.31	7.00	23.70	21.30
20349	Cereal Bone and Plant Food...	Union Mills.....	1.19	1.00	2.05	2.00	2.05	1.00	8.41	8.00	17.72	16.00
20470	Fish, Bone and Potash.....	Baltimore	1.69	1.75	2.83	3.00	2.52	.....	7.18	7.00	19.22	18.40
20544	Gem Phosphate	Philopolis.....	.....	.....	2.57	3.00	2.32	.....	8.36	6.00	10.55	8.40
20329	Guano 7%	Baltimore	36.89	7.00	5.55	5.00	.90	.....	6.40	5.00	41.15	39.00
20329	Harvest Queen.....	Greensboro	1.26	1.25	3.82	3.00	2.27	.....	8.78	9.00	20.31	18.80
F2672	High Grade Acid Phosphate....	Earleville, (E. N. Crawford)	.....	.....	.....	.....	1.10	.....	16.07	16.00	14.68	14.40
20324	High Grade Acid Phosphate....	Baltimore .....	.....	.....	.....	.....	2.05	.....	14.45	14.00	13.42	12.60
20386	Peerless Fertilizer.....	Baltimore	.56	.35	2.60	2.00	2.05	.....	8.53	8.00	15.90	13.00
20471	Potato Manure.....	Philopolis.....	1.96	1.00	8.37	9.00	2.15	.....	8.53	8.00	27.37	22.60
20312	Pure Lissolved Animal Bone...	Baltimore	3.05	2.50	.....	.....	3.10	.....	11.01	10.00	26.65	22.00
20429	Pure Fine Ground Bone Meal...	Colora.....	4.13	4.00	.....	.....	*20.85	*22.00	.....	.....	29.03	29.20
20330	Royal Potash Guano.....	Greensboro.....	1.09	1.00	4.21	4.00	2.00	.....	8.57	8.00	19.65	17.60
20325	Soluble Mixture 12x5.....	Baltimore .....	.....	.....	5.03	5.00	2.45	.....	12.02	12.00	16.34	15.80
20420	Special Grain Grover.....	Walkersville.....	.....	.....	2.21	2.00	2.12	.....	10.49	10.00	12.07	11.00
20472	Special Guano.....	White Hall.....	73	2.00	5.15	5.00	1.90	.....	8.29	8.00	18.78	22.60
20313	Stable Manure Substitute.....	Baltimore	3.52	3.50	4.98	4.00	1.60	.....	5.09	5.00	24.91	24.00
20433	Standard Potash Compound....	Baltimore .....	.....	.....	4.29	4.00	2.12	.....	10.11	10.25	13.81	13.23
20314	Truck Phosphate.....	Baltimore	4.04	4.00	5.19	4.00	1.95	1.00	6.15	7.00	29.51	28.80
20350	Valley Fertilizer.....	Ellicott City.....	.77	.50	2.70	3.00	1.82	.....	9.50	8.00	17.91	14.60
20326	XX Potash Manure.....	Baltimore .....	.....	.....	5.02	5.00	1.92	.....	10.02	10.00	14.42	14.00

20326] XX Potash Manure..... Baltimore..... 5.02] 5.00] 1.92] 10.00] 11.12] 14.00]

FERTILIZER ANALYSES

Griffith & Turner Co., Balto., Md.												
20370	Ammoniated Alkaline Plant Food	Baltimore	.87	1.00	1.89	1.50	2.57	1.00	7.54	6.50	15.45	31.70
20510	Animal Bone Phosphate.....	Baltimore	1.86	2.50	2.30	1.50	1.55	.....	9.85	10.00	22.18	23.50
20371	High Grade Acid Phosphate....	Baltimore	.....	.....	.....	.....	2.62	1.00	14.88	14.00	13.91	12.80
20372	Soft Ground Bone.....	Baltimore	2.34	2.00	.....	.....	*21.65	†50.00	.....	.....	22.35	38.00
20373	Special Potato Mixture.....	Baltimore	1.08	1.00	4.92	5.00	1.97	.....	7.40	8.00	18.91	18.60
Hampstead Fertilizer Co., Hampstead, Md.												
20794	Grain and Grass Grower.....	Hampstead	1.93	2.00	2.70	2.00	1.25	.....	8.62	8.00	21.26	19.60
20795	Honesty.....	Hampstead	.94	1.00	2.34	2.00	.80	.....	8.37	8.00	16.46	15.60
20796	Standard.....	Snydersburg	1.27	1.25	3.14	3.00	1.00	.....	11.10	10.00	21.94	20.00
S. M. Hess & Bro., Phila., Pa.												
20830	Ammoniated Bone Super-Phosphate.	Baltimore	2.03	2.00	2.05	2.00	2.20	.....	7.76	8.00	20.36	19.60
19485	Farmers' Cereal King.....	Baltimore	.....	.....	3.30	3.00	1.07	.....	12.08	12.00	14.38	13.80
20649	Keystone Bone Phosphate.....	Baltimore	1.18	1.00	1.17	1.00	1.82	.....	8.03	8.00	16.26	14.60
20883	Peerless Phosphate.....	Baltimore	.....	.....	5.29	5.00	.95	.....	12.44	12.00	16.68	15.80
19490	Soluble Bone Phosphate.....	Baltimore	.....	.....	.....	.....	.37	.....	14.36	14.00	12.90	12.60
20722	Soluble Bone and Potash.....	Baltimore	.....	.....	2.05	2.00	.87	.....	10.02	10.00	11.24	11.00
20623	Special Compound.....	Preston	1.11	1.00	4.43	4.00	1.75	.....	7.91	8.00	19.06	17.60
20650	Wheat and Grass Manure.....	Baltimore	1.16	1.00	2.06	2.00	1.62	.....	7.53	8.00	16.45	15.60
Wm. H. Hood, Mt. Airy, Md.												
20797	Special Mixture.....	Mt. Airy	1.19	1.00	2.38	2.00	3.55	.....	9.01	9.00	19.37	16.80
Home Fertilizer & Chemical Co., Baltimore, Md.												
20864	Bone and Potash.....	Baltimore	.....	.....	4.78	5.00	1.07	1.00	10.60	10.00	14.53	14.20
19494	Boykin's Dissolved Animal Bone.	Baltimore	2.46	2.00	.....	.....	2.52	.....	12.64	12.00	26.02	22.40
20884	Boykin's Eagle Phosphate.....	Baltimore	1.13	1.00	2.30	1.00	1.30	.....	10.18	8.00	19.56	14.60
20856	Boykin's High Grade Acid Phosphate.	Baltimore	.....	.....	.....	.....	1.22	1.00	13.80	14.00	12.66	12.80
19473	Champion W. & G. Compound..	Baltimore	1.13	1.00	4.93	4.00	1.02	.....	7.95	8.00	19.40	17.60
20708	Everybody's Fertilizer.....	Baltimore	1.38	1.00	3.01	2.00	2.20	.....	8.07	9.00	19.09	16.80
19474	Farmers' Choice.....	Baltimore	1.13	1.00	4.13	4.00	1.20	.....	8.11	7.00	18.86	16.40
20857	Fish, Bone and Potash.....	Baltimore	1.96	2.00	2.41	2.00	1.60	.....	8.63	8.00	21.25	19.60
20709	Home Bone and Potash.....	Baltimore	.....	.....	5.15	5.00	.82	1.00	10.05	10.00	14.36	14.20
*Containing Nitrate. †"Bone Phosphate."												

‡Contains Nitrate. *Total Phosphoric Acid. †"Bone Phosphate."

No.	Name and Address of Manufacturer and Name of Fertilizer.	Place of Sampling (and Sampler, when not the College.)	NITROGEN Calculated as AMMONIA.		POTASH, K ₂ O.		PHOSPHORIC ACID.				Comparative Value per Ton Found.	Comparative Value per Ton Guaranteed.
			Found.	Guaranteed.	Found.	Guaranteed.	Insoluble.	Available.	Found.	Guaranteed.		
Home Fertilizer & Chemical Co., Baltimore, Md.												
20710	Quick Grower	Baltimore	a1.55	1.50	2.61	2.00	2.67	.....	8.04	8.00	\$19.53	\$17.60
20865	Universal Compound	Baltimore .....	.....	.....	3.03	3.00	.55	.....	6.67	6.00	9.14	8.40
20880	Victor Bone and Potash Com- pound.	Baltimore .....	.....	.....	3.50	3.00	.65	.....	9.63	9.00	12.30	11.10
Hubbard Fertilizer Co., Balti- more, Md.												
20564	Alkaline 12 and 5	Baltimore .....	.....	.....	6.65	5.00	1.42	.....	10.07	12.00	15.99	15.80
20866	Alkaline 12 and 3	Baltimore .....	.....	.....	4.14	3.00	1.80	.....	10.02	12.00	13.52	13.80
20790	Animal Bone and Potash	Buck Lodge	1.09	1.00	3.39	3.00	1.97	1.50	7.86	8.00	17.97	17.20
20711	Bone and Potash	Baltimore .....	.....	.....	3.14	2.00	2.02	1.75	9.20	10.00	11.82	11.35
20696	Climax Bone	Poolesville	1.19	1.00	4.61	4.00	1.50	1.50	6.74	8.00	13.79	14.30
20697	Columbia Gem.	Poolesville	.68	.50	3.01	2.00	1.67	1.75	6.16	8.00	13.79	14.30
20600	Farmers' I. X. L.	Baltimore	a1.89	2.00	2.65	2.00	1.90	.....	7.25	8.00	19.67	19.60
20810	Jewel Phosphate	Hydes	1.19	1.00	5.85	5.00	1.80	.....	6.92	8.00	19.63	18.60
20735	Oriental Phosphate	Walkersville	1.09	1.00	2.45	2.00	1.20	.....	7.41	8.00	16.18	15.60
20791	Raw Bone	Dickerson	4.76	4.50	.....	.....	*22.98	*23.85	.....	.....	32.83	32.31
F2641	Rock	Union Mills (D. J. Bowersox)	.....	.....	.....	.....	.42	.....	16.76	16.00	15.16	14.40
20601	Royal Ensign	Baltimore	a3.04	3.00	4.08	4.00	1.67	.....	6.95	8.00	25.25	25.60
20736	Soluble Bone 14%	Monrovia .....	.....	.....	.....	.....	.62	.....	14.67	14.00	13.32	12.60

20698 F2705	Special Mixture...	Poolesville	.....	.....	4.35	2.05	10.01	13.77	13.00
	Special Mixture...	Oakland Mills	.....	.....	4.67	2.05	10.53	25.77	23.80
		(F. H. Bailliere)							
20792	Standard Bone	Sellman	2.00	.....	3.65	1.62	7.56	21.41	21.30
M. P. Hubbard & Co., Balto., Md.									
20609	Acme Bone Fertilizer	Baltimore	1.13	1.00	4.30	1.42	7.73	18.67	17.60
F2708	Acme Bone Fertilizer	Bethlehem	1.43	1.00	4.35	.47	7.68	19.48	17.60
		(D. M. Cheezum)							
F2503	Acme Bone Fertilizer	Preston	1.25	1.00	5.37	.87	8.12	20.46	17.60
		(W. P. Taylor)							
20891	Celebrated Bone Phosphate	Perryman	2.42	2.00	2.75	.77	8.32	22.72	19.60
20633	Celebrated Bone Phosphate	Ellicott City	2.01	2.00	2.09	1.30	8.04	20.30	19.60
20660	Excelsior Bone Phosphate	Baltimore	1.14	1.00	2.05	.95	8.37	17.03	15.60
20558	Fish, Bone and Potash	Baltimore	.46	.25	1.88	.45	8.30	13.86	12.60
20624	Harvest King	Downes	1.25	1.00	3.02	.50	8.30	13.08	17.80
F2665	Harvest King	Cordova	1.43	1.00	3.74	.35	9.07	20.48	17.80
		(A. Huntman.)							
20879	Havana Special Bone Phosphate	Baltimore	3.19	3.00	3.67	.45	8.17	26.41	24.60
20610	Maloney's Special Mixture	Baltimore	2.17	2.00	5.19	.52	8.95	24.82	22.60
20602	Mayland Special Vegetable Grower	Baltimore	4.62	5.00	3.26	1.23	7.98	31.81	33.40
20603	Old Economy	Baltimore	.53	.50	2.68	.65	8.13	14.82	13.60
F2707	Old Economy	Bethlehem	.56	.50	2.37	.75	9.15	15.89	13.60
		(D. M. Cheezum.)							
19475	Raw Bone Meal	Baltimore	4.01	4.00	.....	*18.05	.....	26.87	40.00
20838	Soluble Bone and Potash	Walkersville .....	.....	.....	2.36	.52	10.54	11.95	11.40
F2706	Soluble Bone and Potash	Bethlehem .....	.....	.....	2.60	.55	9.33	11.11	11.40
20651	Soluble S. C. Phosphate	Baltimore .....	.....	.....	.....	.35	13.84	12.53	12.60
20611	Special Potato and Tomato Fertilizer	Baltimore	2.10	2.00	5.51	2.07	6.47	22.50	21.40
F2613	Tankage	Denton	6.60	10.00	.....	*3.08	.....	21.65	30.00
		(L. R. Clough.)							
20652	XXXX Bone and Potash Mixture	Baltimore .....	.....	.....	5.03	.07	12.36	16.16	15.80
F2459	XXXX Bone and Potash Mixture	Cordova .....	.....	.....	4.63	.32	12.02	15.56	15.80
		(W. A. Walls.)							
F2656	XXXX Bone and Potash Mixture	Queen Anne			4.92	.45	12.30	16.08	15.80
		(D. K. Crouse.)							

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			Found.	Guaranteed.	Found.	Guaranteed.	Insoluble.		Available.			
							Found.	Guaranteed.	Found.	Guaranteed.		
F2504	M. P. Hubbard & Co., Balto., Md. XXXX Bone and Potash Mixture	Preston (W. P. Taylor).			6.43	5.00	.55		11.31	12.00	\$16.72	\$15.80
19489	Kirby & Gallup, Oxford, Md. Ground Crab Dust.....	Oxford.....	5.46				*3.54				18.50	
19496	Lister's Agricultural Chemical Works, Newark, N. J.	Baltimore.....			2.33	2.00	.47		9.41	10.00	10.89	11.00
20858	Alkaline Bone.....	Baltimore.....			5.60	5.00	1.30		12.02	12.00	16.68	15.80
20867	Atlas Brand.....	Baltimore.....					*21.92	*22.80			27.83	26.68
20871	Bone Meal.....	Baltimore.....	3.67	3.25			1.32		14.83	14.00	13.61	12.60
20713	Buyers' Choice Acid Phosphate.	Baltimore.....					.42		14.64	14.00	13.26	12.60
20793	Buyers' Choice Acid Phosphate.	Lisbon.....										
20634	Celebrated Ground Bone, Acidu- lated.	Baltimore.....	4.16	3.25			*12.03	*12.00			23.86	20.20
20635	Corn and Potato Fertilizer.....	Annapolis.....	2.22	2.00	3.04	3.00	1.60		7.74	8.00	21.85	20.60
20612	"G" Brand Fertilizer.....	Baltimore.....	1.19	1.00	4.33	4.00	1.87		8.01	8.00	19.45	17.60
20676	Golden Sheaf.....	Baltimore.....	.63	.50	2.02	2.00	1.40		7.53	8.00	14.14	13.60
20677	Harvest Queen Phosphate.....	Baltimore.....	1.55	1.50	2.01	2.00	2.10		8.58	9.00	19.35	18.80
20665	Special Crop Producer.....	Baltimore.....	1.11	1.00	1.25	1.00	1.35		7.16	7.00	14.82	13.40
20678	Special Wheat Fertilizer.....	Baltimore.....	2.10	2.00	3.05	3.00	1.90		7.82	8.00	21.62	20.60
20613	Special 10% Fertilizer.....	Baltimore.....	2.05	2.00	10.97	10.00	1.92		8.41	8.00	30.03	27.60

FERTILIZER ANALYSES

21

20636	Standard Pure Bone Super-Phosphate of Lime.	Ellicott City.....	2.83	3.00	2.24	2.00	2.32	.....	8.39	9.00	24.56	24.80
20881	U. S. Super-Phosphate.....	Baltimore.....	1.33	1.25	2.23	2.00	1.62	.....	8.10	8.00	17.92	16.60
20637	Wheat and Rye Fertilizer.....	Ellicott City.....	2.05	2.00	2.29	2.00	2.47	.....	7.52	8.00	20.50	19.60
	Mape's Formula & Peruvian Guano											
	Co., New York, N. Y.											
20781	Mape's Fruit and Vine Manure.	Hematite.....	a3.02	2.00	b11.77	10.00	2.17	.....	5.56	5.00	33.74	26.00
20654	D. B. Martin Co., Philadelphia, Pa.											
20638	Clark's Standard Bone Phosphate.	Baltimore.....	.....	.....	.....	.....	1.07	.....	13.72	14.00	12.56	12.60
		Ellicott City.....	2.17	2.00	3.21	3.00	3.30	.....	7.71	9.00	22.46	21.80
20820	Clarmont Vegetable Grower....	Zion.....	3.02	3.00	5.03	5.00	3.27	.....	6.42	7.00	26.12	25.40
20604	Corn and Cereal Special.....	Baltimore.....	2.24	2.01	1.97	2.00	2.05	.....	7.72	8.00	21.01	19.60
20614	Crop Producer.....	Laurel.....	1.40	1.25	.....	.....	2.02	.....	9.71	10.00	18.06	17.00
20811	Dissolved Organic Compound....	White Hall.....	1.30	1.25	2.30	2.00	1.45	.....	8.91	9.00	18.77	17.80
20730	Dissolved Slaughterhouse Bone.	Seneca.....	1.33	1.25	.....	.....	1.73	.....	9.47	10.00	17.37	17.00
20615	One, Eight and Four.....	Laurel.....	1.23	1.00	4.30	4.00	1.45	.....	7.62	8.00	18.94	17.60
19480	Potash and Soluble Bone.....	Baltimore.....	.....	.....	4.53	5.00	.50	.....	12.52	12.00	15.90	15.80
20774	Pure Dissolved Animal Bone....	Rising Sun.....	2.25	2.00	.....	.....	2.12	.....	12.42	12.00	24.75	22.40
20731	Pure Ground Bone.....	Silver Spring.....	2.01	2.00	.....	.....	*22.67	*22.00	.....	.....	21.64	21.20
20616	Pure Raw Bone Meal.....	Laurel.....	4.37	4.50	.....	.....	*21.03	*21.00	.....	.....	30.13	30.60
20617	Special Compound.....	Laurel.....	2.01	2.00	5.29	5.00	2.17	.....	8.03	8.00	23.84	22.60
20737	Special Mixture.....	Graceham.....	.65	.50	3.86	3.00	1.10	.....	8.60	8.00	17.22	14.60
20699	Sure Grower.....	Gaithersburg.....	1.06	1.00	1.18	1.00	1.82	.....	8.01	8.00	15.76	14.60
	Martin & White Co., Baltimore, Md.											
F2646	Bone Meal.....	Cecilton (J. A. Pierce.)	3.33	3.00	.....	.....	*23.05	*23.00	.....	.....	27.15	25.80
F2647	For Wheat.....	Cecilton (J. A. Pierce.)	.....	.....	.....	.....	.25	.....	14.73	14.00	13.31	12.60
20859	For Wheat.....	Baltimore.....	.85	1.00	4.09	4.00	1.15	.....	8.22	8.00	17.81	17.60
F2645	Genuine German Kainit.....	Cecilton (J. A. Pierce.)	.....	.....	11.88	12.50	.....	.....	.....	.....	.....	.....
20625	Horsey's Mixture.....	Greensboro.....	1.52	1.50	3.09	3.00	5.57	.....	6.66	8.00	19.39	18.60
F2626	Horsey's Mixture.....	Greensboro (N. Horsey of S. H.)	1.45	1.50	3.26	3.00	4.84	.....	7.58	8.00	20.10	18.60
20875	McKenry's Compound.....	Baltimore.....	1.09	1.50	3.19	2.50	2.65		9.54	9.50	20.06	19.90

aContains Nitrate. bAs Sulfate. *Total Phosphoric Acid.

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			Found.	Guaranteed.	Found.	Guaranteed.	Insoluble.	Available.	Found.	Comparative Value per Ton		
F. Mehring, Bruceville, Md.												
20738	Dissolved Raw Bone.....	Williamsport.....	2 05	2 00	.....	.....	4 20	1 00	12 97	14 00	\$25.44	\$25.20
20739	General Crop Grower.....	Walkersville.....	1 25	1 00	1 39	1 25	5 09	1 00	10 98	10 00	21 61	17 65
20740	Potash and Phosphoric Acid....	Walkersville.....	.....	.....	2 45	2 00	2 85	1 00	14 72	12 00	16 27	13 00
20741	Twenty-Six-Dollar Phosphate..	Walkersville.....	1 79	1 50	1 97	1 50	5 85	1 00	11 46	10 00	25 22	19 90
Miller Fertilizer Co., Balto., Md.												
20839	Alkaline.....	Keedysville.....	.....	.....	5 35	5 00	65	1 00	11 77	12 00	16 07	16 00
20825	Ammoniated Dissolved Bone...	Blake.....	2 06	2 00	2 29	2 00	80	1 50	7 76	8 00	20 16	20 20
20812	Ammoniated Dissolved Bone...	Parkton.....	2 03	2 00	2 09	2 00	82	1 50	7 72	8 00	19 30	20 20
20876	Buyers' Mixture.....	Baltimore.....	.....	.....	5 78	5 00	50	1 00	9 89	10 00	14 78	14 20
20743	Clinch Phosphate.....	Motters.....	.....	.....	2 31	2 00	45	1 00	10 05	10 00	11 45	11 20
20568	Club Brand.....	Baltimore.....	65	50	2 19	2 00	41	1 00	8 56	8 00	15 22	14 00
20413	Dissolved Raw Bone.....	Glencoe.....	2 78	2 50	.....	.....	4 02	2 00	10 55	11 00	25 39	24 00
20798	Farmers' Profit.....	Lineboro.....	1 19	1 00	5 05	5 00	1 02	1 00	8 37	8 00	20 26	19 00
20714	Ground Bone.....	Baltimore.....	3 28	3 00	.....	.....	*14 52	*14 50	.....	.....	21 83	20 70
20567	Harvest Queen.....	Harvest Queen.....	1 50	1 25	3 02	2 75	83	1 00	9 16	9 00	20 34	18 95
20745	Hustler Phosphate.....	Graceham.....	1 13	1 00	1 11	1 00	1 47	1 00	7 36	8 00	15 05	15 00
20565	Hustler Phosphate.....	Baltimore.....	1 16	1 00	1 30	1 00	97	1 00	7 78	8 00	15 67	15 00
20885	M. B. S. Fertilizer.....	Baltimore.....	1 09	1 00	3 44	3 00	77	1 50	7 34	7 00	16 92	16 00
20877	Potato and Vegetable Grower..	Baltimore.....	2 13	2 00	4 16	4 00	1 02	1 00	8 40	8 00	23 17	22 00
20562	S. C. Rock.....	Philopolis.....	.....	.....	.....	.....	1 90	1 00	14 32	14 00	13 07	12 80
20566	Standard Phosphate.....	Baltimore.....	3 14	3 00	3 12	3 00	1 26	1 00	8 05	8 00	25 84	25 00
20653	W. G. Phosphate.....	Baltimore.....	61	50	1 36	1 00	75	1 00	7 47	7 00	13 06	11 80

Miller & Cramer, Woodsboro, Md.											
20746	Crop Grower.....	Woodsboro.....	2.06	2.00	2.12	2.00	1.65	7.55	8.00	20.08	19.60
20747	Maryland Plow Brand.....	Woodsboro.....	1.08	1.10	1.96	2.00	1.72	7.68	8.00	16.19	15.60
20748	Sun Brand.....	Woodsboro.....	.96	.50	1.80	1.00	1.02	8.15	8.00	15.83	12.60
Nicodemus & Grimes, Monrovia, Md.											
20742	Sullivan's S. S. S.....	Monrovia.....	2.03	2.00	2.15	2.00	1.82	8.27	9.00	20.92	20.80
G. Ober & Sons Co., Balto., Md.											
20640	Dissolved Animal Bone.....	Baltimore.....	3.36	3.00	.....	.....	2.50	10.57	10.00	27.12	24.00
20559	Dissolved Bone Phosphate.....	Greensboro.....	.....	.....	.....	.....	.20	14.15	14.00	12.78	12.60
20667	Dissolved Bone Phosphate and Potash.....	Baltimore.....	.....	.....	2.23	2.00	1.45	10.03	10.00	11.55	11.00
20626	Farmers' Mixture.....	Denton.....	a1.21	1.00	2.22	2.00	1.75	8.93	9.00	18.48	16.80
20605	Farmers' Standard Ammoniated Phosphate.....	Baltimore.....	.....	2.00	2.32	2.00	2.17	9.98	9.00	23.89	20.80
20814	Fish, Bone and Potash.....	Cockeysville.....	a3.02	3.25	4.83	3.50	1.37	9.63	8.00	29.02	26.10
20561	Fish and Potash Fertilizer.....	Perryman.....	a1.76	2.00	2.08	2.00	1.15	10.60	9.00	23.30	20.80
20860	High Grade Acid Phosphate.....	Baltimore.....	.....	.....	.....	.....	1.42	16.47	16.00	15.10	4.40
20723	Independent Ammoniated Super-Phosphate.....	Baltimore.....	a1.11	1.00	1.54	1.00	1.80	8.29	8.00	16.65	14.60
20679	Ox-Head Fertilizer.....	Baltimore.....	.61	.50	2.18	2.00	1.62	7.61	8.00	14.40	13.60
19486	Pure Bone Meal.....	Baltimore.....	3.31	3.00	.....	.....	*23.30*22.00	.....	.....	27.22	25.20
20606	Pure Raw Bone Meal.....	Baltimore.....	4.74	4.00	.....	.....	*22.84*21.00	.....	.....	32.66	28.60
13495	Soluble Ammoniated Super-Phosphate of Lime.....	Baltimore.....	a2.29	2.00	2.33	2.00	2.17	9.59	8.00	23.87	19.60
20889	Special Plant Food.....	Dover Bridge.....	a2.25	2.00	5.83	5.00	2.05	8.55	9.00	25.91	23.80
20680	Stag Guano.....	Baltimore.....	a1.23	1.00	4.09	4.00	1.62	8.15	8.00	19.44	17.60
20319	Standard Potash Compound.....	Baltimore.....	.....	.....	5.02	5.00	1.70	12.23	12.00	16.37	15.80
Patapasco Guano Co., Balto., Md.											
20868	Alkaline Plant Food.....	Baltimore.....	.....	.....	5.83	5.00	1.12	8.16	8.00	13.39	12.20
20668	Alkaline Phosphate.....	Baltimore.....	.....	.....	3.34	3.00	1.05	12.07	12.00	14.41	13.80
20655	Baltimore Soluble Phosphate.....	Baltimore.....	.....	.....	2.30	2.00	1.55	10.44	11.00	12.01	11.90
20656	Blood, Bone and Potash.....	Baltimore.....	.65	.50	2.13	2.00	1.17	8.03	8.00	14.84	13.60
20669	Coon Brand Guano.....	Baltimore.....	1.06	1.00	3.18	3.00	1.62	9.19	9.00	19.06	17.80
F2404	Enterprise Phosphate.....	Cecilton.....			5.22	5.00	1.20	10.02	10.00	14.48	14.00

(L. N. Davis.)

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			Found.	Guaranteed.	Found.	Guaranteed.	Insoluble.	Available.	Found.			
												Guaranteed.
Patapasco Guano Co., Balto., Md.												
20724	Fish Guano.....	Baltimore.....	2.22	2.00	2.32	2.00	2.17	.....	.....	6.12	6.00	\$19.41 \$ 7.20
20716	Grain and Grass Producer.....	Baltimore.....	1.08	1.00	4.04	4.00	1.47	.....	.....	8.22	8.00	18.81 17.60
20886	Grange Mixture.....	Baltimore.....	1.76	2.00	2.16	2.00	1.50	.....	.....	7.95	8.00	19.34 19.60
2086	High Grade Bone and Potash.....	Baltimore.....	.....	.....	5.32	5.00	.77	.....	.....	12.24	11.00	16.49 14.90
20869	Peninsula Potash Mixture.....	Baltimore.....	.....	.....	5.89	5.00	1.40	.....	.....	12.02	12.00	16.99 15.80
20693	Pure Dissolved S. C. Bone.....	Baltimore.....	.....	.....	.....	.....	1.80	.....	.....	14.36	14.00	13.28 12.60
19484	Pure Ground Bone.....	Baltimore.....	4.11	4.50	.....	.....	*20.72	*20.60	.....	.....	.....	28.87 30.86
20725	Sea Gull Guano.....	Baltimore.....	1.19	1.00	1.16	1.00	1.57	.....	.....	8.01	8.00	16.16 14.60
20670	Soluble Bone and Potash.....	Baltimore.....	.....	.....	2.02	2.00	.97	.....	.....	10.27	10.00	11.45 11.00
20627	Special Wheat Compound.....	Greensboro.....	2.42	2.25	2.61	2.50	3.37	5.00	.....	10.23	9.00	25.92 24.30
20657	Special Wheat Compound Animal Bone Base.	Baltimore.....	2.39	2.25	2.60	2.50	3.47	5.00	.....	10.54	9.00	26.20 24.30
Peerless Fertilizer Co., Chester- town, Md.												
20782	Imperial Compound.....	Chestertown.....	1.14	1.00	4.81	.400	.65	.....	.....	7.51	8.00	18.64 17.60
20783	Our Victor.....	Chestertown.....	.70	1.00	3.03	3.00	.45	.....	.....	8.51	8.00	16.22 16.60
19467	Peerless Tomato Fertilizer.....	Aberdeen.....	a2 06	2.00	6.65	5.00	.95	.....	.....	6.48	7.00	23.05 21.40
20681	Pennington's Mixture.....	Baltimore.....	.36	.50	3.15	3.00	.72	.....	.....	8.14	8.00	14.65 14.60
20784	10-5.....	Chestertown.....	.....	.....	5.26	5.00	.07	.....	.....	9.70	10.00	14.00 14.00

No.	Name and Address of Manufacturer and name of Fertilizer.	Place of Sampling (and Sampler, when not the College.)	NITROGEN Calculated as AMMONIA.		POTASH, K ₂ O.		PHOSPHORIC ACID.			Comparative Value per Ton	Comparative Value per Ton Guaranteed.	
			Found.	Guaranteed.	Found.	Guaranteed.	Insoluble.	Available.				
									Found.			Guaranteed.
Pollock Fert. Co., Baltimore, Md.												
20838	Ammoniated Bone Phosphate...	Baltimore	2.01	2.00	2.30	2.00	1.75	.....	7.53	8.00	\$20.08	\$19.60
20685	Crop Invigorator	Baltimore	1.08	1.00	4.56	4.00	1.72	.....	7.91	8.00	19.06	17.60
20661	Dissolved Bone & Potash	Baltimore	.....	.....	3.78	4.00	1.27	.....	10.43	10.00	13.42	13.00
20563	Dissolved S. C. Bone	Baltimore	.....	.....	.....	.....	.87	.....	14.77	14.00	13.46	12.60
20694	Ground Animal Bone	Baltimore	4.32	4.00	.....	.....	*21.66	*21.50	.....	.....	30.28	28.90
20686	Owl Brand Guano	Baltimore	.65	.50	1.62	1.50	1.67	.....	6.67	7.00	12.89	11.90
20882	Soft Ground Bone	Baltimore	2.93	3.00	.....	.....	*16.77	*13.75	.....	.....	21.78	20.25
19498	Soluble Bone Phosphate	Baltimore	.....	.....	2.55	2.00	.70	.....	10.33	10.00	11.99	11.00
20728	Special Potato and Tobacco Fer- tilizer	Baltimore	1.91	2.00	3.96	4.00	2.00	.....	8.68	8.00	22.82	21.60
20750	Special Wheat Grower	Lime Kiln	1.08	1.00	2.13	2.00	1.07	.....	8.33	8.00	16.88	15.60
20662	Star Alkaline Phosphate	Baltimore	.....	.....	5.31	5.00	1.20	.....	12.19	12.00	16.52	15.80
20695	Sun Guano	Baltimore	.....	.....	6.14	6.00	.97	.....	10.03	10.00	15.36	15.00
20831	Victor Bone Phosphate	Baltimore	.....	.....	1.23	1.00	.87	.....	9.32	9.00	9.79	9.10
20821	Pugh & Lyons, Oxford, Pa. Ground Raw Bone	Zion	4.71	4.00	.....	.....	*22.20	*20.00	.....	.....	32.16	28.00
2075	Ramsburg Fert. Co., Frederick, Md. Alkaline Phosphate	Monrovia	.....	.....	2.27	2.00	3.97	.....	8.61	10.00	10.81	11.00
20703	Ammoniated Bone Phosphate	Barnesville	1.04	1.00	3.09	2.00	.50	.....	10.88	10.00	20.51	18.00
20752	Dissolved Bone Super-Phosphate	Frederick	.....	.....	.....	.....	1.85	.....	15.18	14.00	14.03	12.60
20840	Excelstor Half and Half	Frederick	1.06	1.00	2.21	1.00	3.40	.....	9.26	10.00	18.92	17.00

20704	Excelsior Plant Food.....	Buck Lodge.....	2.03	2.00	2.40	2.00	2.85	9.81	9.00	23.43	20.80
20753	Old Virginia Compound.....	Monrovia.....	1.35	1.21	3.94	4.00	1.97	8.23	8.00	21.21	18.44
20754	Queen.....	Monrovia.....	.73	.50	1.34	1.00	4.37	8.25	8.00	15.91	12.60
20755	William's Wheat and Grass Fer- tilizer.....	Monrovia.....	1.13	1.00	2.31	2.00	2.50	9.41	8.00	19.12	15.60
Rasin-Monumental Co., Balto., Md.											
20572	Rasin's Acid Phosphate 16%.....	Crumpton.....	.....	.....	.....	.....	.35	1.00	15.86	14.34	14.60
20625	Rasin's Acid Phosphate.....	Greensboro.....	.....	.....	.....	.....	.57	1.00	14.08	12.78	12.80
20671	Rasin's Best Wheat and Grass Producer.....	Baltimore.....	1.81	1.50	2.86	3.00	2.07	1.00	8.35	20.95	19.00
20663	Rasin's Bone and Potash Ferti- lizer.....	Baltimore.....	.....	.....	1.81	2.00	1.02	1.00	10.14	11.14	11.20
F2664	Rasin's Buyers' Mixture.....	Millington, (J. E. Spear.)	1.72	2.00	b5.01	4.00	2.30	.....	11.30	12.00	27.37
20705	Rasin's Crop Grower.....	Germantown.....	1.04	1.00	.90	1.00	1.47	1.00	8.38	8.00	15.71
20687	Rasin's Dissolved Bone.....	Baltimore.....	2.10	2.00	.....	.....	3.67	.....	10.13	22.03	20.00
20732	Rasin's Empire Guano.....	Silver Spring.....	1.62	2.00	1.69	2.00	2.15	1.00	8.61	19.36	20.00
20570	Rasin's Empire Guano.....	Baltimore.....	1.89	2.00	2.06	2.00	2.57	1.00	8.03	20.36	20.00
20756	Rasin's Half and Half Mixture.....	Hancock.....	.....	.....	3.38	3.00	.42	1.00	6.56	6.00	9.36
20629	Rasin's High Grade Bone and Potash.....	Greensboro.....	.....	.....	5.06	5.00	.45	1.00	11.70	12.00	15.68
20571	Rasin's I. X. L. Fertilizer.....	.....	1.14	1.00	2.82	3.00	2.15	1.00	9.12	9.00	19.18
20630	Rasin's National Crop Compound.....	Greensboro.....	1.04	1.00	4.34	4.00	1.95	1.00	8.25	8.00	19.18
20733	Rasin's Pure Raw Bone.....	Seneca.....	4.44	4.00	.....	.....	*22.85	*22.50	.....	31.48	29.50
20706	Rasin's Royal Fish, Bone and Potash.....	Gaithersburg.....	2.02	2.00	2.86	3.00	2.30	1.00	7.85	8.00	21.28
20757	Rasin's Soluble Alkaline Bone..	Woodsboro.....	.....	.....	2.79	3.00	.82	1.00	11.85	12.00	13.62
20569	Rasin's Special Bone and Potash.....	.....	.....	.....	5.09	5.00	1.35	1.00	9.65	10.00	14.05
20620	Rasin's Special Fish and Potash.....	Laurel.....	2.03	2.00	3.58	3.00	2.07	1.00	5.85	6.00	19.55
19493	Rasin's Special Formula for Corn and Tomatoes.....	Pocomoke City.....	.....	.....	3.05	3.00	.45	1.00	6.15	6.00	8.68
20758	Rasin's Triple Bone and Potash.....	Graceham.....	.....	.....	5.91	6.00	.57	1.00	12.33	13.00	17.12
20631	Rasin's United Grain Grower..	Greensboro.....	1.11	1.00	2.13	2.00	2.20	1.00	7.87	8.00	16.89
20658	Rasin's United Grain Grower..	Baltimore.....	1.13	1.00	1.91	2.00	2.02	1.00	7.75	8.00	16.54
20688	Rasin's Wheat, Corn and Oats Mixture.....	Baltimore.....	.77	.50	1.82	2.00	1.82	1.00	7.95	8.00	15.17
20817	Rasin's Wheat Potash Mixture.....	Philopolis.....	.....	.....	5.12	5.00	.87	1.00	7.83	8.00	12.34
20632	Rasin's XXX Fertilizer.....	Greensboro.....	2.13	2.00	b5.05	5.00	1.62	1.00	8.02	8.00	24.85

H. S. Taveau & Co., Balto., Md.											
20823	Bone Mixture.....	Calvert.....	1.01	1.00	2.89	2.50	1.30	9.73	10.00	19.13	18.50
20832	Dissolved S. C. Bone.....	Baltimore.....	.....	.....	.....	.....	1.60	13.78	14.00	12.72	12.60
19477	Florida Phosphate.....	Baltimore.....	.....	.....	.....	.....	1.00	13.94	14.00	12.75	12.60
19478	Special Wheat Mixture.....	Baltimore.....	.....	.....	3.41	3.00	1.20	11.34	12.00	13.86	13.80
20833	Wheat and Grass Compound....	Baltimore.....	.....	.....	2.74	2.50	1.10	11.02	11.00	12.88	12.40
D. A. Thomas & Co., Hagers-town, Md.											
20842	Bone Mixture.....	Funktown.....	2.03	2.00	2.40	2.00	1.50	7.68	8.00	20.34	19.60
20843	Crown Jewel.....	Hagerstown.....	1.11	1.25	3.53	3.00	1.32	8.98	8.00	19.28	17.60
20844	Dissolved Bone.....	Hagerstown.....	2.27	2.25	4.47	4.00	5.72	7.64	10.00	25.01	25.00
20845	Dissolved Bone Phosphate.....	Boonsboro.....	.....	.....	.....	.....	1.37	13.81	14.00	12.70	12.80
20846	Excelsior.....	Hagerstown.....	2.08	2.00	4.44	4.00	1.97	7.59	8.00	22.26	21.60
20847	Farmers' Mixture.....	Hagerstown.....	1.09	1.00	2.01	2.00	.75	7.75	8.00	15.97	15.60
20848	Golden Sheaf.....	Boonsboro.....	.90	1.00	1.77	1.00	.85	8.55	8.00	15.97	14.60
20849	Soluble Bone and Potash.....	Boonsboro.....	.....	.....	4.09	2.00	.52	11.90	10.00	14.90	11.00
F2630	Special Mixture.....	Fairplay.....	a4.13	4.40	5.15	5.00	8.07	7.50	10.20	33.90	36.84
(L. Stonebraker.)											
I. P. Thomas & Son Co., Phila-delphia, Pa.											
20641	Fish Guano.....	Annapolis.....	2.06	2.00	2.15	2.00	1.35	9.51	9.50	22.30	21.40
20642	Potato Fertilizer.....	Annapolis.....	a2.10	2.00	5.63	6.00	1.35	8.74	9.00	25.06	24.80
20643	Potato Manure.....	Annapolis.....	a2.47	3.00	5.64	6.00	2.32	9.95	9.00	28.39	29.20
20762	S. C. Phosphate.....	Hancock.....	.....	.....	.....	.....	.87	14.94	14.00	13.58	12.60
20644	Sweet Potato Manure.....	Annapolis.....	a2.06	2.00	10.08	10.00	1.00	6.94	7.00	27.05	26.80
20645	Tip Top Raw Bone Super-Phos-phate.....	Annapolis.....	2.82	3.00	4.27	4.00	.72	8.24	8.00	25.73	26.00
W. B. Tilghman Co., Salisbury, Md.											
20826	Bone Tankage Mixture.....	Salisbury.....	2.22	2.00	2.70	2.00	2.32	8.34	8.00	22.52	19.60
20828	Bone Tankage Mixture.....	Stockton.....	1.91	2.00	2.60	2.00	1.85	9.77	8.00	22.70	19.60
20827	Fish, Bone and Potash.....	Salisbury.....	.90	1.00	2.83	2.00	1.12	10.47	10.00	19.44	18.00
20829	Special Mixture.....	Stockton.....	.34	.33	2.78	2.00	.57	11.24	12.00	17.86	17.72
F. W. Tunnell & Co., Phila., Pa.											
20824	Royal Fish Guano.....	Zion.....	1.59	2.25	4.06	5.25	3.00	6.82	7.00	19.80	22.65

a Contains Nitrate. *Total Phosphoric Acid.

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			Found.	Guaranteed.	Found.	Guaranteed.	Insoluble.	Available.	Found.	Guaranteed.		
19482	Tuscarora Fert. Co., Balto., Md.	Baltimore.....	1.96	2.00	4.41	5.00	.97	.50	10.43	10.00	\$13.99	\$14.10
20862	Alkaline.....	Baltimore.....	1.96	2.00	4.15	4.00	1.91	.50	7.03	7.00	21.19	20.60
20863	Big (4) Four.....	Baltimore.....	1.09	1.00	2.20	2.00	1.90	.50	9.67	10.00	11.08	11.10
19488	Bone and Potash.....	Baltimore.....	1.09	1.00	1.95	2.00	1.22	.50	7.93	8.00	16.32	15.80
19488	Special Crop Grower.....	Baltimore.....	1.84	2.00	2.50	2.00	.27	.50	7.95	8.00	19.51	19.80
19469	Standard Phosphate.....	Aberdeen.....	.51	.50	3.06	3.00	.47	.....	8.02	8.00	14.91	14.60
20878	Sure Grower.....	Baltimore.....	1.01	1.00	4.20	4.00	.50	.50	7.47	8.00	17.40	17.80
19488	York State Special.....	Baltimore.....	1.01	1.00	4.20	4.00	.50	.50	7.47	8.00	17.40	17.80
20853	J. E. Tygart Co., Philadelphia, Pa.	Childs.....	2.17	2.25	3.03	2.50	1.27	.....	8.77	8.00	22.74	21.10
20854	Bone Phosphate.....	Childs.....	.61	.60	2.02	2.00	1.22	.....	8.54	8.00	15.20	14.00
20779	Golden Harvest Phosphate.....	Childs.....	1.02	1.00	4.53	4.00	1.55	.....	8.28	8.00	19.17	17.60
20779	Victor Bone and Potash.....	Rising Sun.....	1.02	1.00	4.53	4.00	1.55	.....	8.28	8.00	19.17	17.60
20763	J. Tyson & Son, Frederick, Md.	Monrovia.....	1.01	1.75	2.37	2.00	2.00	.....	7.82	10.00	16.59	21.00
20763	Ammoniated Super-Phosphate.....	Frederick.....	1.02	1.00	2.06	2.00	.35	.....	14.83	14.00	13.42	12.60
20764	Dissolved S. C. Rock.....	Lime Kiln.....	1.02	1.00	2.06	2.00	1.35	.....	6.49	10.00	14.47	18.00
20765	Half and Half Super-Phosphate.....	Frederick.....	.72	1.00	1.53	1.00	.95	.....	7.45	8.00	13.73	14.60
20766	Special Mixture.....	Frederick.....	.72	1.00	1.53	1.00	.95	.....	7.45	8.00	13.73	14.60
20788	E. S. Valliant & Sons., Church Hill, Md.	Chestertown.....	.55	.25	2.23	2.00	1.08	.....	10.08	10.00	16.96	15.00
20789	Ammoniated Potash Mixture.....	Price.....	.53	.50	2.33	2.00	.85	1.00	10.12	8.00	16.99	14.00
20789	Grain Grower.....	Price.....	.53	.50	2.33	2.00	.85	1.00	10.12	8.00	16.99	14.00

FERTILIZER ANALYSES

31

20834	Ideal Fertilizer.....	Baltimore.....	1.02	1.00	2.29	2.00	1.90	8.94	9.00	\$17.86	\$16.80
20607	Standard Fertilizer.....	Baltimore.....	1.19	1.00	4.41	4.00	2.87	8.29	9.00	20.27	18.80
F2681	Virginia-Carolina Chemical Co., Acid Phosphate 16%.....	Richmond, Va. Lander..... (D. M. Souder.)					.30	1.00	16.57	16.00	14.97
20767	Birely's Ammo. Bone Phosphate.....	Ladiesburg.....	.82	.50	1.50	1.00	1.72	8.04	8.00	15.12	13.00
F2624	Birely's Ammo. Bone Phosphate.....	Motters..... N. Martins.)	.61	.50	1.14	1.00	1.62	8.08	8.00	14.16	13.20
20768	Birely's Crop Producer.....	Ladiesburg.....			2.25	2.00	.85	9.10	9.00	10.61	10.30
20573	Corn and Buckwheat Special.....	Baltimore.....			3.30	3.00	.62	6.44	6.00	9.22	8.60
20769	Fish, Bone and Potash.....	Hancock.....			3.56	3.00	1.50	7.38	8.00	21.10	20.60
20835	High Grade Bone and Potash.....	Baltimore.....	2.02	2.00	4.32	5.00	1.15	11.31	12.00	14.73	16.00
20770	National Ammoniated Guano.....	Emmitsburg.....			4.10	4.00	1.47	7.66	8.00	17.96	18.00
20691	Peerless Bone and Potash.....	Baltimore.....	1.02	1.00	4.00	2.00	1.82	8.00	9.80	9.40	
19470	Prize Potato Manure.....	Aberdeen.....	2.24	2.00	7.02	6.00	2.20	5.77	6.00	23.78	21.60
20771	Pure Raw Bone Mixture.....	Hancock.....	4.61	4.50			*23.43	*22.50		32.50	31.60
20772	Special Bone and Potash.....	Emmitsburg.....			5.38	5.00	1.60	9.49	10.00	14.24	14.20
20836	Special Compound for Wheat.....	Baltimore.....	.92	1.00	1.19	1.00	1.92	8.73	8.00	16.12	15.00
20873	Special Potash Mixture.....	Baltimore.....			5.43	5.00	1.42	8.10	8.00	13.00	12.40
20664	Standard Bone and Potash.....	Baltimore.....			1.92	2.00	1.25	10.18	10.00	11.33	11.20
20717	Standard Corn and Grain Grower.....	Baltimore.....	.65	.50	1.94	2.00	1.67	8.02	8.00	14.83	14.00
F2623	Standard Corn and Grain Grower.....	Motters..... (N. Martin.)	.68	.50	2.16	2.00	1.20	8.02	8.00	15.00	14.00
20837	Standard Crop Grower.....	Dickerson.....	1.86	2.00	2.21	2.00	1.00	7.91	8.00	19.54	19.60
19471	Star Truck Compound.....	Aberdeen.....	2.05	2.00	11.17	10.00	2.07	6.92	8.00	28.50	28.00
20803	Union Super-Phosphate.....	Melrose.....			3.05	3.00	.82	5.83	6.00	8.46	8.60
20729	Wheat and Clover Fertilizer.....	Baltimore.....			2.26	2.00	2.07	8.47	9.00	17.57	17.20
20773	Wheat Grower.....	Emmitsburg.....	1.08	1.00	2.02	2.00	1.95	8.06	8.00	16.55	16.00
	S. L. Webster & Son, Cambridge, Md. Ammo. Bone Fertilizer No. 2.....	Baltimore.....	a2.06	2.00	3.37	3.00	2.45	7.64	7.00	21.76	19.40
20890	Bone and Potash.....	Trappe.....			2.23	2.00	2.60	10.14	10.00	11.88	11.00
20675	Old Dorset Ammo. Bone Fert.....	Baltimore.....	.89	1.00	4.33	4.00	1.70	7.47	8.00	17.53	17.60
	Westminster Fertilizer Co., Big Gun.....	Westminster.....	1.79	2.00	2.49	2.00	1.70	11.45	10.00	24.07	22.00
20804	Governor.....	Westminster.....	1.55	1.50	2.76	2.50	1.30	10.30	9.00	21.84	19.30
20806	Leader.....	Westminster.....	1.02	1.00	1.88	1.50	1.25	8.63	8.00	16.82	15.10
20807	Super A.....	Westminster.....	.78	.75	1.13	1.00	.80	8.44	8.00	14.70	13.60

No.	Name and address of Manufacturer and name of Fertilizer.	Place of Sampling (and Sampler, when not the College.)	NITROGEN Calculated as AMMONIA.		POTASH, K ₂ O.		PHOSPHORIC ACID.		Comparative Value per Ton Guaranteed.			
			Found.	Guaranteed.	Found.	Guaranteed.	Insoluble.	Available.				
								Found.		Guaranteed.		
											Found.	Guaranteed.
19472	H. W. Whistler, Fountain Green, Crop Grower.	Bel Air.	1.54	1.50	2.40	2.00	1.55	.....	8.33	8.00	19.18	17.60
20608	Robert A. Wooldridge Co., Champion Giant Phosphate.	Baltimore.	1.09	1.00	2.16	2.00	1.87	.....	8.92	9.00	17.97	16.80
20808	Chieftain Bone Stock Phosphate.	Melrose.	2.08	2.00	2.06	2.00	1.62	.....	8.23	8.00	20.91	19.60
20855	Farmers' Fav. Cereal Compound	Singery.	.65	.50	2.30	2.00	1.52	.....	7.84	7.00	14.92	12.40
20621	Florida Acid Phosphate.	Baltimore.	.....	.....	.....	.....	1.90	.....	14.06	14.00	13.03	12.60
20718	German Potash Mixture.	Baltimore.	.....	.....	2.02	2.00	.95	.....	9.78	10.00	11.01	11.00
20646	High Grade Dis. Animal Bone.	Ellicott City.	1.45	2.50	.....	.....	1.67	.....	12.15	12.00	21.05	24.40
20818	Ideal Grain and Grass Producer.	White Hall.	.....	.....	4.09	4.00	.85	.....	10.42	10.00	13.64	13.00
20719	Ideal Grain and Grass Producer.	Baltimore.	.....	.....	3.90	4.00	.82	.....	10.10	10.00	13.15	13.00
20647	Liberty Bell Potash Mixture.	Ellicott City.	.....	.....	2.93	3.00	.85	.....	13.03	12.00	14.83	13.80
20809	No. 1 Bone and Potash 6X3.	Melrose.	.....	.....	3.33	3.00	.50	.....	6.32	6.00	9.12	8.40
20720	No. 2 Bone and Potash 8X5.	Baltimore.	.....	.....	4.48	5.00	.60	.....	9.39	8.00	13.05	12.20
20874	Old Sledge Phosphate	Baltimore.	4.10	4.00	5.21	5.00	.77	.....	12.62	12.00	16.72	15.80
20622	Pure Raw Bone	Baltimore.	.....	.....	.....	.....	*21.60	*20.00	.....	.....	29.36	28.00
19465	Sweet Stakes Sure Shot.	Perryman.	3.07	3.00	8.48	8.00	1.52	.....	7.85	7.00	30.79	28.40
20819	Triumph Pure Bone Phosphate.	White Hall.	1.62	1.50	4.41	4.00	1.72	.....	7.70	8.00	20.82	19.60
	Wooldridge Fert. Co., Balto., Md.											
20707	Curacao Guano.	Germantown.	.....	.....	.....	.....	14.80	11.50	8.63	8.50	10.73	9.95
19466	Orchilla Guano.	Fallston.	.....	.....	.....	.....	15.87	11.50	7.78	6.50	10.17	8.15
20721	Tiger Bone Stock Phosphate.	Baltimore.	1.28	1.25	4.67	4.50	.82	1.00	8.21	8.00	19.97	19.50
19492	Virginia Belle Potash Mixture.	Baltimore.	.....	.....	3.07	3.00	.67	1.00	11.67	12.00	13.70	14.00

*Total Phosphoric Acid.